

C. StROUP

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1633

RAW SEQUENCE LISTING

DATE: 08/03/2000

PATENT APPLICATION: US/09/300,959

TIME: 12:03:39

Input Set : A:\Za35191.app

Output Set: N:\CRF3\08032000\I300959.raw

ENTERED

3 <110> APPLICANT: Zanetti, Maurizio  
5 <120> TITLE OF INVENTION: Somatic Transgene Immunization and Related Methods  
7 <130> FILE REFERENCE: P-ZA 3519  
9 <140> CURRENT APPLICATION NUMBER: US 09/300,959  
10 <141> CURRENT FILING DATE: 1999-04-27  
12 <150> PRIOR APPLICATION NUMBER: US 60/083,154  
13 <151> PRIOR FILING DATE: 1998-04-27  
15 <160> NUMBER OF SEQ ID NOS: 42  
17 <170> SOFTWARE: PatentIn Ver. 2.1  
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31 <213> ORGANISM: Artificial Sequence  
33 <220> FEATURE:  
34 <223> OTHER INFORMATION: Description of Artificial Sequence: mutant heavy  
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37 <400> SEQUENCE: 2  
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46 <220> FEATURE:  
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57 <213> ORGANISM: Plasmodium falciparum  
59 <400> SEQUENCE: 4  
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61 1  
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66 <212> TYPE: DNA  
67 <213> ORGANISM: Artificial Sequence  
69 <220> FEATURE:  
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71 region

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75 tcctgtgcag cctctggatt cactttcagt aggtattaca tgtcttgggt tcgccagact 120
76 ccagagaaga ggctggagtt ggtcgcagcc attaatagta atggtggtag cacctactat 180
77 ccagacactg tgaaggccg attcaccatc tccagagaca atgccaaaaa caccctgtac 240
78 ctgcaaata gacgtctgaa gtctgaggac acagccttgt attactgtgc aagaaaggta 300
79 cctactctc atggtatgga ctactggggt caaggaacct cagtcaccgt ctcctcagg 360
80 aagaatggc tctccaggtc tttattttta acctttgtta tggagttttc tgagcattgc 420
81 ag 422
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 422
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Description of Artificial Sequence: genomic VDJ
91 region
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94 gacgtgaagc tggaggagtc tgggggaggc ttagtgaagc ttggagggtc cctgaaactc 60
95 tcctgtgcag cctctggatt cactttcagt aggtattaca tgtcttgggt tcgccagact 120
96 ccagagaaga ggctggagtt ggtcgcagcc attaatagta atggtggtag cacctactat 180
97 ccagacactg tgaaggccg attcaccatc tccagagaca atgccaaaaa caccctgtac 240
98 ctgcaaata gacgtctgaa gtctgaggac acagccttgt attactgtgc aagaaaggta 300
99 cctactctc atggtatgga ctactggggt caaggaacct cagtcaccgt ctcctcagg 360
100 aagaatggc tctccaggtc tttattttta acctttgtta tggagttttc tgagcattgc 420
101 ag 422
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105 <211> LENGTH: 419
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
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111 region
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115 tcctgtgcag cctctggatt cactttcagt aggtattaca tgtcttgggt tcgccagact 120
116 ccagagaaga ggctggagtt ggtcgcagcc attaatagta atggtggtag cacctactat 180
117 ccagacactg tgaaggccg attcaccatc tccagagaca atgccaaaaa caccctgtac 240
118 ctgcaaata gacgtctgaa gtctgaggac acagccttgt attactgtgc aagaaaggcc 300
119 tactctcatg gtatggacta ctgggggtcaa ggaacctcag tcaccgtctc ctcaggtaag 360
120 aatggcctct ccaggctctt atttttaacc ttgttatgg agttttctga gcattgcag 419
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124 <211> LENGTH: 419
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Description of Artificial Sequence: genomic VDJ
130 region
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133 gacgtgaagc tggaggagtc tgggggaggc ttagtgaagc ttggagggtc cctgaaactc 60

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134 tcctgtgcag cctctggatt cactttcagt aggtattaca tgtcttgggt tcgccagact 120
135 ccagagaaga ggctggagtt ggtcgtagcc attaatagta atggtggtag cacctactat 180
136 ccagacactg tgaagggccg attcaccatc tccagagaca atgccaaaaa caccctgtac 240
137 ctgcaaatga gcagtctgaa gtctgaggac acagccttgt attactgtgc aagaaaggcc 300
138 tactctcatg gtatggacta ctgggggtcaa ggaacctcag tcaccgtctc ctcaaggtaag 360
139 aatggcctct ccaggctctt atttttaacc ttgttatagg agttttctga gcattgcag 419
142 <210> SEQ ID NO: 9
143 <211> LENGTH: 12
144 <212> TYPE: PRT
145 <213> ORGANISM: Plasmodium falciparum
147 <400> SEQUENCE: 9
148 Asn Ala Asn Pro Asn Val Asp Pro Asn Ala Asn Pro
149   1           5              10
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153 <211> LENGTH: 36
154 <212> TYPE: DNA
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158 <223> OTHER INFORMATION: Description of Artificial Sequence:
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161 <400> SEQUENCE: 10
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167 <212> TYPE: DNA
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171 <223> OTHER INFORMATION: Description of Artificial Sequence:
172     complementarity determining region 3(CDR3)
174 <400> SEQUENCE: 11
175 aatgcaaacc caaatgcaaa cccaaatgca aaccca                36
178 <210> SEQ ID NO: 12
179 <211> LENGTH: 62
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
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185     complementarity determining region 3 (CDR3)
187 <400> SEQUENCE: 12
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189 tc                                                62
192 <210> SEQ ID NO: 13
193 <211> LENGTH: 14
194 <212> TYPE: PRT
195 <213> ORGANISM: Influenza virus
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198 Ala Ser Asn Glu Asn Met Glu Thr Met Glu Ser Ser Thr Leu
199   1           5              10
202 <210> SEQ ID NO: 14

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203 <211> LENGTH: 48
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215 <210> SEQ ID NO: 15
216 <211> LENGTH: 11
217 <212> TYPE: PRT
218 <213> ORGANISM: MUC-1 tumor antigen
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221 Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
222   1           5           10
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226 <211> LENGTH: 11
227 <212> TYPE: PRT
228 <213> ORGANISM: Artificial Sequence
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231 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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235 Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
236   1           5           10
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240 <211> LENGTH: 12
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245 Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro
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249 <210> SEQ ID NO: 18
250 <211> LENGTH: 24
251 <212> TYPE: DNA
252 <213> ORGANISM: Mus musculus
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255 ttcgatgtcc ataccatgag agta           24
258 <210> SEQ ID NO: 19
259 <211> LENGTH: 24
260 <212> TYPE: DNA
261 <213> ORGANISM: Mus musculus
263 <400> SEQUENCE: 19
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268 <211> LENGTH: 24
269 <212> TYPE: DNA
270 <213> ORGANISM: Homo sapiens
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278 <212> TYPE: DNA
279 <213> ORGANISM: Homo sapiens
281 <400> SEQUENCE: 21
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286 <211> LENGTH: 23
287 <212> TYPE: DNA
288 <213> ORGANISM: Mus musculus
290 <400> SEQUENCE: 22
291 ttattgagaa tagaggacat ctg                23
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296 <212> TYPE: DNA
297 <213> ORGANISM: Mus musculus
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304 <211> LENGTH: 23
305 <212> TYPE: DNA
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308 <400> SEQUENCE: 24
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314 <212> TYPE: DNA
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317 <220> FEATURE:
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319     oligonucleotide
321 <400> SEQUENCE: 25
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325 <210> SEQ ID NO: 26
326 <211> LENGTH: 22
327 <212> TYPE: DNA
328 <213> ORGANISM: Artificial Sequence
330 <220> FEATURE:
331 <223> OTHER INFORMATION: Description of Artificial Sequence:
332     oligonucleotide
334 <400> SEQUENCE: 26
335 aacagtattc tttctttgca gc                22
338 <210> SEQ ID NO: 27
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340 <212> TYPE: DNA
341 <213> ORGANISM: Artificial Sequence
343 <220> FEATURE:
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VERIFICATION SUMMARY                      DATE: 08/03/2000  
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